

PLAINFIELD CHARTER TOWNSHIP

DECK CONSTRUCTION

ALL DECK PERMITS REQUIRE THE INSPECTIONS LISTED BELOW

1. STAKE OUT & POST FOOTING INSPECTION - DO NOT FILL HOLES UNTIL APPROVED.
2. FINAL INSPECTION - WHEN DECK IS COMPLETED.

THESE ARE SOME CONSTRUCTION ITEMS WE WILL BE LOOKING FOR:

Concrete post footings must be 42 in. below grade level.

Footings must be prestressed concrete or poured concrete.

Decks connected to house will be lag screwed or bolted with 3/8" diameter or larger 24" o.c.

Ledger connected to house needs to be counter flashed.

All post and joist connections must be secured together with approved bolts, ties or straps.

All joists must have a minimum of 1 1/2 in. of bearing. When 5/4 decking is used, deck joists must be 16 in. o.c.

STAIRWAYS

- A. 3 ft. minimum width for all stairways
- B. Landing 3 ft. x 3 ft. minimum size.
- C. Maximum riser height shall be 8 1/4 in.
- D. Minimum tread depth shall be 9 in., measured from nosing to nosing. A 3/4 to 1 1/4 inch nosing required on stairways with solid risers.
- E. Solid risers are not required, provided that no opening between treads is larger than 4 in.
- F. No tread or riser will vary more than 3/8 in. in any flight of stairs.
- G. Stairway guards shall not be less than 34 inches in height above the leading edge of the treads.

GUARD RAILS

- A. Guard rails are required on all open sided walking surfaces which are located more than 30 inches above grade level.
- B. Guard rails shall not be less than 36 inches in height.
- C. Open guards on a deck or landing shall have balusters such that a sphere with a diameter 4" cannot pass through any opening.
- D. Open guards on a stairway shall be allowed to have 4 1/4" between balusters.

STAIRWAYS WITH 3 OR MORE RISERS SHALL HAVE A MINIMUM OF ONE HANDRAIL

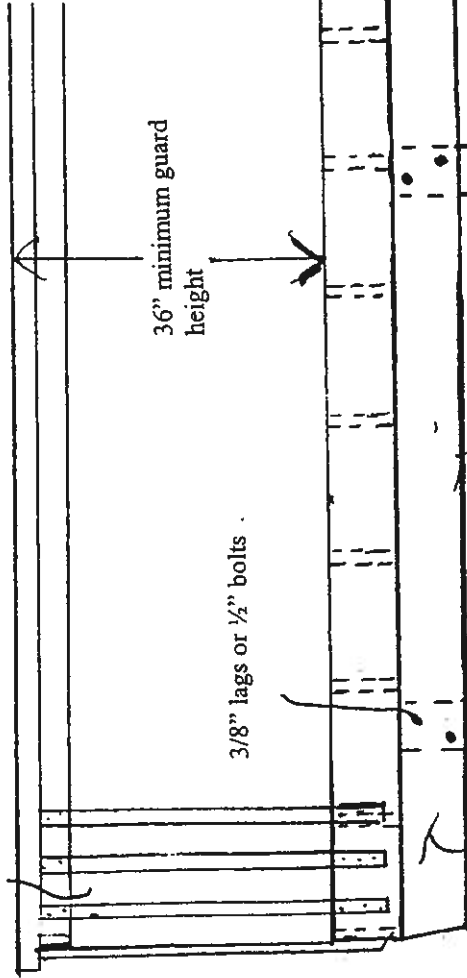
- A. Handrails shall be continuous for the full length of the flight of stairs and shall be Returned at ends or terminated at a newel post or safety terminal.
- B. Handrails shall be between 34 in. and 38 in. in height.
- C. All handrails will be checked for graspability.

Maximum spans for floor joists (treated):

SPECIES	southern pine	hem fir	spruce, pine & fir (SPF)
	16" O.C.	24" O.C.	16" O.C.
	24" O.C.	16" O.C.	24" O.C.

2X6 # 2	9'-6"	7'-9"	8'-11"	7'-4"	9'-1"	7'-5"
2X8 # 2	12'-4"	10'-0"	11'-4"	9'-3"	11'-6"	9'-5"
2X10 # 2	14'-8"	12'-0"	13'-10"	11'-4"	14'-1"	11'-6"
2X12 # 2	17'-2"	14'-0"	16'-1"	13'-1"	16'-3"	13'-4"

4" sphere cannot pass through spaces



Max. cantilever ~~is 24"~~
 Det. governed by
 MATIC 5122

Maximum spans for under beams based on a 40 lb live load, 20 lb dead load and a 35 lb ground snow load:

- 4'-0" for 2x6
- 6'-0" for 2x8
- 8'-0" for 2x10
- 10'-0" for 2x12

- 4x4
- 4x6
- 6x6

Must be .60 retention
 If below grade

SIZE DET. BY

HEIGHT ABOVE GRADE

42" frost protection required at all posts, including landings and stairs if deck is connected to the principle building or any structure requiring frost protected footings.

Concrete footing

SPW ET M17 only

Size determined by structural Loads and transmitting them to

stairs with a total rise of more than 30" shall not be less than 34" in height measured vertically from the nosing of the treads

Triangle formed by tread Riser and guard shall not allow a 6" sphere to pass through

Space cannot allow a 4" sphere to pass through

Graspable handrail required on at least one side of all stairs that have 4 or more risers.

36" minimum guard height

5/4 decking can only be used on 16" O.C. joists or less

Landing size is a min. of 3'x3'

9" min tread measured nose to nose of treads

8 1/4" maximum rise

Risers must be blocked off so a 4" sphere cannot pass through

Counter flashing @ deck nailer

3/8" min. dia. Lags 24" O.C.

Joist hangers (proper size)

"L" brackets required on joists connected to deck n

Finish grade

42" frost protection required at all posts, including landings and stairs if deck is connected to the principle building or any structure requiring frost protected footings.

*Frost bot
Req'd at
Bottom of
STAIR
stringers*

